HHSMail Update INFORMATION SYSTEMS COORDINATOR COMMITTEE BI-ANNUAL MEETING June 12, 2007

Agenda

- > Status
- > Cost Report Information
- > Storage Quota Issue
- > Decommissioning Legacy Environment
- Questions and Discussion

ISC Bi-Annual Conference

Status - Operations

- Service Impacting Events
 - May 5th OWA down for 14 minutes at 5:10 pm EST.
 Big IP load balancers were reset to clear problem
 - May 16th OWA down for 20 minutes at 11:10 pm EST. Big IP load balancers were reset to clear problem
 - May 17th IXOS services down for 338 minutes at 2:35 am EST due to drive errors.
 - May 23rd Lost communications at the NIC Card on Exchange cluster affecting email access for 23 minutes at 5:23 am EST.

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Status - Operations

- There have been recent requests made by the HQ Division of Regulatory and Legal Affairs for Area IT staff to search their employee email data for messages relevant to ongoing legal litigation.
- Email data from HHSMail system can be made available to Area IT staff to perform this search by requesting mailbox export to PST file through the HO Division of Information Security. The DIS liaison currently handling these requests is Arnold (Mike) Ginn.
- These PST files produced from the HHSMail mailbox export will be made available to Area IT staff through secured file shares. Since all email message data was synchronized with HHSMail for migration, it is assumed that all other historical data will be found on PST files stored on local and/or network storage already available to your IT staff.
- The Office of General Council is aware that the IHS legacy email system and associated data is no longer available or needed to perform email data searches.

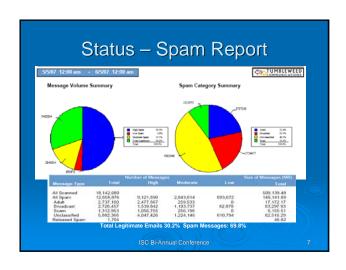
Status - Engineering

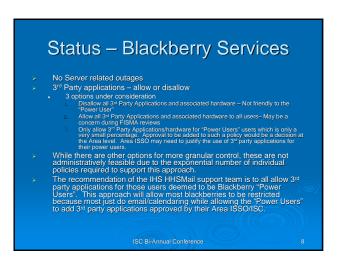
- Mailbox Capacity Planning
 - Plan and estimate store/server allocation and future
- MS Patch Tuesday
 - Microsoft patches will be released, tested and installed
- > Performance monitoring and capacity planning
 - Working on EM7 to provide ongoing in-depth performance data for proactive analysis of capacity
- > ES7000/520 overhaul
 - The ES7000/520 housing both backend IXOS and Tumbleweed needs driver updates and Sentinel updates and work to fix some Virtual server failover issues on the backend IXOS side
 - Perform routine updates to the Media Server Fiber Cards and the Tape Drive Systems. Software and Firmware updates

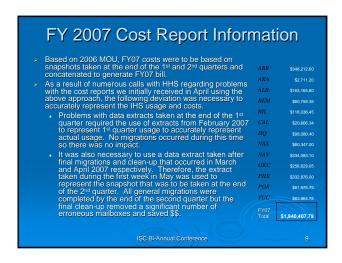
Status - Engineering

- Implement the DNS Blacklist services via GFI software in the DMZ
 - Implement a pay service to block and drop more spam messages before they enter the email environment. Need to work with Unisys SOC to get proper firewall ports open to allow DNS lookups to DMZ
- Blackberry Enterprise Server 4.1
 - Writing up proposals for updating OPDIVs to Version 4.1 BES. Documenting pros and cons of such a move.
- IXOS front end server balancing
 - Due to high stress on one of the IXOS front end servers, we are moving to balance jobs and OPDIVs between two servers.
- > Exchange Virtual Server Registry Change to recover non-paged pool memory
 - Engineering followed new recommendations from Microsoft to make some registry changes on all Exchange nodes to save around 6 MB of Non-Paged Memory.

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FY08 Cost Proposal by HHS Hot off the HHS Chief Technology Officers Desk while drafting this presentation yesterday. In order to fully recover costs for FY 2008 and beyond, the following annual costs per mailbox/resource will be presented for consideration by OPDIV CIOs at the HHS ITIRB meeting next week: • Extend contract through 2010: • Standard 200 MB Mailbox wilXOS: \$151 (\$12.58 Monthly) • Basic 100 MB Mailbox \$100 (8.33 Monthly) • BlackBerry, \$45 (\$3.75 Monthly) • 100 MB Commodity SAN: \$24 (\$2.00 Monthly) • Do not extend contract through 2010: • Standard 200 MB Mailbox wilXOS: \$169 (14.08 monthly) • Basic 100 MB Mailbox \$106 (\$8.83 Monthly) • BlackBerry, \$45 (\$1.00 MB Commodity SAN: \$24 (

Impact of Cost Proposal A large plus is that 50 MB "Basic" mailbox sizes will double to 100 MB at no additional cost if the HHSMail contract is extended through 2010 and only increase by \$6 if it is not extended through 2010. The increase cost of a 200 MB "Standard" mailbox by \$10 only slightly increases overall Area costs. Increases in additional storage costs will have no impact since we are deploying quota settings to eliminate all additional storage charges unless Area/Facility IT staff have explicitly requested a larger limit for a user which is very rare. Discussion about quotas in upcoming slides. Since IHS has a relatively low number of Blackberry devices, this cost increase will only slightly increase overall Area costs. This proposal provides a significant increase in value at very little increase in cost to IHS.

FYI - Market Survey Conducted at the request of HHSMail User Council Survey performed to provide independent verification and validation of costs of HHSMail when comparing with similar 'enterprise' class services. The table was actually done by IHS based on data collection performed by NIH IT staff who does not participate in the IHHSMail solution which can be considered an independent party. Service/Vendor Appriver ASP-One 12 TOgether Intermedia Average HHSMail Solution which can be considered an independent party. Service/Vendor Appriver ASP-One 12 TOgether Intermedia Average HHSMail Sol. 98 Mailson 15/255 15/25

Storage Quota Issue

200 MB Mailboxes w/IXOS

- Our expectation was that IXOS would automatically manage and keep them below the limit to avoid having to deploy quota limits and charges for additional storage.

 The reality is that IXOS employs rules that archive attachments based on their size and are deployed to have acceptable IXOS performance. This size limit was set to archive attachments 50K or larger but we were able to negotiate this down to 25K or larger. The manufacturer, Open Text, will not support setting this any lower for performance reasons.

 Although this helped there are still 1,985 mailboxes that are near or over 200 MB because these users don't manage their email. This causes the limit to be reached because thousands of email messages, many with attachments less than 25 KB, can still exceed 200 MB.

 Although the billing report showed the additional costs for storage because of users being over 200 MB, we were not charged. Next year, given the increase in additional storage costs noted in previous slide, we definitely want to get quotas correctly implemented prior to FY 2008 to automatically manage mailbox sizes/costs.

Storage Quota Issue

200 MB Mailboxes w/IXOS - Goal & Next Steps

Apply quota warning and send/receive limits appropriately to avoid being charged additional storage fees

Prohibit Send: 190MB or 95% (194560)
Prohibit Send/Receive: 200MB or 100% (204800)

- Implement these quota limits for users currently under these limits.
- > Send notification email to remaining 200MB mailbox users with instruction on how and why their mailbox needs to be managed below these limits by a certain date.
- > HQ Rockville team will draft the message template for user notifications and if desired by the ISCs will send on to all affected users.

Storage Quota Issue

50 MB Basic Mailboxes

- The current quota limits on these mailboxes are set to warn at 50 MB, prohibit send at 75 MB, and prohibit receive at 100 MB. This was done to accommodate the migration process because many mailboxes were over 50 MB at the time of migration and remain over the limit. These quota limits were never throttled back.
- While we are ready to do this with appropriate user notifications, this may not be required if previously discussed increase in the basic mailbox size is approved by the HHS ITIRB next week.

 Let's place the quota issue for 50 MB mailboxes on the back burner waiting on final notice from the HHS CTO regarding next weeks HHS ITIRB decision.
- The quota settings for the basic mailbox definitely needs to be addressed appropriately before FY 2008 to avoid any additional storage costs.

Decommissioning Legacy Environment All Exchange Servers have been decommissioned with the exception of one in Rockville and one in Albuquerque. These boxes are used to support the Recipient Update Service(RUS) which provides the ability to mail-enable user accounts. Timeframe for discontinuing support for legacy email addresses has been extended until application programming staff are available to address process by which IHS systems such as ITAS and GovTrip, can be updated with every user's primary SMTP address following the format First.Last@IHS.gov. It is likely this will have to wait until needed programming staff are available after the UFMS scheduled deployment is complete in October 2007.

Questions and Discussion